

In re Appln. of: Shulman et al.  
Application No.: 09/970,409

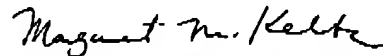
### REMARKS

This paper is a supplemental response to the Office Action dated March 29, 2002, and relates to the above-identified application with serial number 09/970,409, and filing date October 3, 2001. Claims 21-24 are pending in this application, stand rejected, and are at issue herein. Claims 25-35 were added in the first response to the Office Action.

The Applicant wishes to extend appreciation for the telephone conversation of November 25, 2002 to discuss the status of the Claims and this paper is the result and recordation of that conversation. Claim 21 has been amended in accordance with the changes discussed; and the Abstract has been rewritten as requested.

The Application is considered in good and proper form for allowance, and the Examiner is respectfully requested to pass this Application to issue. If, in the opinion of the Examiner, a telephone conference would expedite the prosecution of the subject Application, the Examiner is invited to call the undersigned attorney.

Respectfully submitted,



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Date: November 25, 2002

CERTIFICATE OF FACSIMILE TRANSMISSION

I hereby certify that this Supplemental Response to Office Action (along with any documents referred to as attached or enclosed) is being transmitted by facsimile to the United States Patent and Trademark Office, Attention: Examiner Tuan Quang Dam, Group 2124, Facsimile Number (703) 746-7239, on the date indicated.

Date: November 25, 2002

Linda Sorenson  
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(Signature of person transmitting paper)

**PATENT**  
Attorney Docket No. 213792

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:  
Shulman et al.

Art Unit: 2124

Application No.: 09/970,409

Examiner: Tuan Quang Dam

Filed: October 03, 2001

For: COMPUTER PROGRAMMING  
LANGUAGE STATEMENT BUILDING  
AND INFORMATION TOOL

**AMENDMENTS TO SPECIFICATION, CLAIMS, AND ABSTRACT  
MADE IN RESPONSE TO OFFICE ACTION DATED MARCH 29, 2002**

**Amendments to the Abstract:**

An intelligent real time tool ~~to assists~~ a computer programmer during the writing and/or maintenance of a computer program. The tool generates assist windows that contain program related information that the programmer can use to construct a programming language statement and/or to obtain real time information about a programming language statement. An assist window can be automatically displayed as determined by the tool itself, and/or manually displayed on demand in response to a user input command. An assist window displays two general categories of information including but not limited to selection menu information based on a partial compilation of all programming language statements, and informational displays based on a partial compilation and a reverse parse of an immediate programming language statement. The statement generating tool assist windows are non-intrusive to programmer input and can be ignored by the programmer by merely continuing to type ~~an immediate programming language statement without interacting with the assist windows that are proximate the programming language statement being constructed by the programmer.~~

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21. (Amended) A computer-readable medium containing computer-executable instructions to perform a method for assisting a computer programmer in real-time to modify a present programming language statement of a computer program, the method comprising:

enabling a programming language editor having a character position cursor and a randomly positionable pointer;

partially compiling available ones of a plurality of programming language statements in said computer program;

defining a finite set of programming language statement information that is relevant to at least one segment of the present programming language statement from among said plurality of programming language statements that is proximate to said character position cursor which allows modification of the programming language statement; and

automatically generating a passive assist window that contains at least one of selection menu information and said finite set of programming language statement information, in a location proximate to said character position cursor that does not obstruct the current view of said programming language statement.